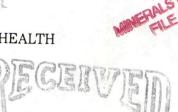


Director

Norman H. Bangerter Governor Suzanne Dandoy, M.D., M.P.H. Executive Director Kenneth L. Alkema

State of Utah DEPARTMENT OF HEALTH DIVISION OF ENVIRONMENTAL HEALTH

288 North 1460 West P.O. Box 16690 Salt Lake City, Utah 84116-0690 (801) 538-6121



October 12, 1990AS & MINING

Mr. Glen M. Eurick Environmental Affairs Coordinator (USA) Barrick Mercur gold Mine P.O. Box 838 Tooele, Utah 84074

RE: Conditional Approval of Subsurface Water Quality Q.A./Q.C. Plan for Dump Leach #3; Ground Water Quality Discharge Permit No. UGW450001

Dear Mr. Eurick:

We have reviewed your revised sampling plan dated August 8, 1990.

The plan is hereby approved, in accordance with the following conditions:

- 1. All laboratory analyses required by the permit are to be conducted by a laboratory certified for each analyte or groups of analytes by the State Health Laboratory under either the Clean Water Act, Safe Drinking Water Act, or the Resource Conservation and Recovery Act. It is Barrick's obligation to ensure all analyses are conducted by a laboratory which meets these criteria.
- All ground water samples will be filtered in the field for dissolved analysis, unless ground
 water turbidity at the time of collection is equal to or less than 5 NTU, then only total
 analysis may be conducted at Barrick's discretion.
- 3. Total Cyanide analysis will be conducted using Standard Methods 4500-CN-E (17th Ed.,), achieving a minimum detection limit of 0.02 mg/l, in accordance with Part I E(7)(b)(2)(ii) of the permit.
- 4. Nickel analysis will be preceded by acid digestion and sample concentration in accordance with Standard Methods 3030 D (17th Ed.), followed by analysis by EPA Method 249.1; achieving a minimum detection limit of 0.01 mg/l in accordance with Part I E(7)(b)(2)(ii) of the permit.

Mr. Glen Eurick Page 2 October 12, 1990

As per Part I H(1) of the permit this approved plan is to become Appendix A of the permit. Please modify the sampling plan to address the above conditions, and resubmit a final copy of the plan, for our inclusion into the final permit. This change and other minor permit modifications you brought to our attention in your letter of August 1, 1990, will be made shortly.

If you have any questions or comments, please contact Loren Morton at 538-6146. We appreciate your continued compliance.

Sincerely,

Utah Water Pollution Control Committee

Don A. Ostler, P.E. Executive Secretary

cc:

Terry VanDell, Dames & Moore Rex Henderson, Chemtech Wayne Hedberg, DOGM Matt Trujillo, Tooele County Health Dept.

LBM:kc Q:BMD3SQA.LTR